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Data Sheet

August 15, 2026

ABB / KENT-TAYLOR

ABB / Kent-Taylor 442R Pneumatic Indicating Controller

ABB Kent-Taylor 442R Pneumatic Indicating Controller Proportional plus Reset The 442R is the Fulscope 440R Series pneumatic indicating controller with proportional plus automatic reset. OEM 440R ModelCinstructions list gain 0.2 to 35 percent output per percent input, reset 0.05 to 200 repeats per minute, PRE-ACT 0.1 to 20 minutes on derivative members, differential gap 1 to 100 percent, direct or reverse action, output 3-15 psi / 20-100 kPa / 0.2-1.0 kg/cm², air supply nominal 20 psi (140 kPa) min 18 / max 30 psi, consumption 0.2 scfm max steady, 1/4 in Int. NPT pneumatic, repeatability better than 0.3 percent, typical accuracy better than plus or minus 1.0 percent (plus or minus 2.0 percent max), ambient minus 20 to 180 F (minus 29 to 82 C), IP54 / NEMA 3, case 11-7/8 × 10 × 4-3/4 in, scale 6-3/8 in, mass 11.9 lb (5.4 kg), UL94V-0, output gauge 0-30 psi. Artisan example 442RA1600G0100C is 3-15 psi reverse with dual-scale gauge. The 442R is the Fulscope 440R Series pneumatic indicating controller with proportional plus automatic reset. OEM 440R ModelCinstructions list gain 0.2 to 35 percent output per percent input, reset 0.05 to 200 repeats per minute, PRE-ACT 0.1 to 20 minutes on derivative members, differential gap 1 to 100 percent, direct or reverse action, output 3-15 psi / 20-100 kPa / 0.2-1.0 kg/cm², air supply nominal 20 psi (140 kPa) min 18 / max 30 psi, consumption 0



MODEL

**ABB / Kent-Taylor
442R**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

442R

LISTING

[https://aumictechlabs.c
om/products/442r-2/](https://aumictechlabs.com/products/442r-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The ABB Kent-Taylor 442R is a pneumatic indicating controller that delivers proportional plus integral control for precise process regulation. It accepts a 3 to 15 psi pneumatic input signal and outputs a proportional pneumatic control signal, making it suitable for monitoring and adjusting pressure, temperature, flow, and level across industrial processes. The unit features dual digital displays for programming and indication, LED alarm status indicators, and intuitive membrane-switch controls for real-time parameter adjustment.

Technical Specifications

Control Authority
Proportional plus Automatic Reset (Integral) control modes
Direct or reverse action operation
Proportional response (gain): 0.2 to 35% output per % input
Reset rate (integral): 0.05 to 200 repeats per minute
Accuracy: $\pm 0.55\%$ of span
Repeatability: 0.2%
Dead band: 0.2%
Speed of response: 6.1 ± 0.5 seconds (60 Hz); 7.3 ± 0.5 seconds (50 Hz)
Signal Interface
Input: 3 to 15 psi pneumatic signal
Output: pneumatic control signal
User Interface
Dual digital displays (upper and lower)
Three tactile membrane switches (Page Advance, Parameter Advance, Enter)
Rotary bit-generator for parameter value adjustment
Auto/Manual selector switch
LED indicators for alarm status (A1, A2)

Key Features
Adjustable proportional gain eliminates the need for external amplification or custom configurations
Integral reset function removes steady-state offset between setpoint and process measurement
Metal case construction with wall/panel mounting lugs
Weight: 1.6 lb (0.7 kg)
Setpoint, zero, proportional gain, and reset rate adjustment controls

Typical Applications
Process control loops requiring setpoint regulation with offset elimination. Suitable for cascade control configurations and multi-parameter industrial monitoring.

Compatibility & Integration
The optional Model 4234 power supply provides stabilized 350 mA direct current output, available in 110–120 V a.c. or 200–220/240 V a.c. versions, with cable gland entries for supply and output connections.

442R Characteristics / Specifications

PARAMETER	VALUE
Model	442R
Instrument Type	Pneumatic indicating controller with proportional plus reset
Family	ABB Kent-Taylor Fulscope 440R Series ModelICProportional Gain: 0.2 to 35 percent output per percent input
Reset Rate	0.05 to 200 repeats per minute
PreAct	0.1 to 20 minutes on derivative family members
Differential Gap	1 to 100 percent
Control Action	direct or reverse, field changeable
Output Signal	3 to 15 psi (20 to 100 kPa, 0.2 to 1.0 kg/cm ²)
Air Supply Nominal	20 psi (140 kPa)
Air Supply Limits	18 psi min (125 kPa), 30 psi max (200 kPa)
Air Consumption	0.2 scfm maximum at steady state
Pneumatic Ports	1/4 in Int. NPT supply and output, bottom
Repeatability	better than 0.3 percent
Calibrated Accuracy	typically better than plus or minus 1.0 percent, plus or minus 2.0 percent maximum
Pointer Accuracy	plus or minus 2 percent across range for most measuring elements
Ambient Temperature	minus 20 to 180 F (minus 29 to 82 C)
Enclosure	IEC IP54 and NEMA Type 3
Case Size	11-7/8 inHx 10 inWx 4-3/4 in D (302 × 254 × 121 mm)
Scale Length	6-3/8 in (162 mm)
Mass	11.9 lb (5.4 kg) approximate
Flammability	UL94V-0
Output Gauge	standard 0 to 30 psi / 0 to 200 kPa
Alarm Contacts	SPDT 5 A 125/250 V ac; 4 A 30 V dc resistive (alarm overlays)
Manufacturer	ABB / Kent-Taylor

PARAMETER	VALUE
Literature	440R Series ModelCInstructions 01A400 (442R proportional plus reset)

442R Specifications

PARAMETER	VALUE
Applications	Pneumatic temperature, pressure, and level loops needing proportional-plus-reset indication in a Fulscope 440R case.
Key Features	Gain 0.2 to 35 percent per percent
Reset 0.05 to 200 repeats per minute	3-15 psi output, 20 psi air supply
Better than 0.3 percent repeatability	IP54 / NEMA 3 glass-fiber case, 11.9 lb
Technical Specifications	Model: 442R

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Technical Specifications	
PARAMETER	VALUE
Model	442R
Instrument Type	Pneumatic indicating controller with proportional plus reset
Family	ABB Kent-Taylor Fulscope 440R Series Model C
Proportional Gain	0.2 to 35 percent output per percent input
Reset Rate	0.05 to 200 repeats per minute
PreAct	0.1 to 20 minutes on derivative family members
Differential Gap	1 to 100 percent
Control Action	direct or reverse, field changeable
Output Signal	3 to 15 psi (20 to 100 kPa, 0.2 to 1.0 kg/cm2)
Air Supply Nominal	20 psi (140 kPa)
Air Supply Limits	18 psi min (125 kPa), 30 psi max (200 kPa)
Air Consumption	0.2 scfm maximum at steady state
Pneumatic Ports	1/4 in Int. NPT supply and output, bottom
Repeatability	better than 0.3 percent
Calibrated Accuracy	typically better than plus or minus 1.0 percent, plus or minus 2.0 percent maximum
Pointer Accuracy	plus or minus 2 percent across range for most measuring elements
Ambient Temperature	minus 20 to 180 F (minus 29 to 82 C)
Enclosure	IEC IP54 and NEMA Type 3
Case Size	11-7/8 in H x 10 in W x 4-3/4 in D (302 x 254 x 121 mm)
Scale Length	6-3/8 in (162 mm)
Mass	11.9 lb (5.4 kg) approximate
Flammability	UL94V-0
Output Gauge	standard 0 to 30 psi / 0 to 200 kPa
Alarm Contacts	SPDT 5 A 125/250 V ac; 4 A 30 V dc resistive (alarm overlays)
Manufacturer	ABB / Kent-Taylor

PARAMETER	VALUE
Literature	440R Series Model C instructions 01A400 (442R proportional plus reset)

Specifications

PARAMETER	VALUE
Model	442R
Instrument Type	Pneumatic indicating controller with proportional plus reset
Family	ABB Kent-Taylor Fulscope 440R Series ModelCProportional Gain: 0.2 to 35 percent output per percent input
Reset Rate	0.05 to 200 repeats per minute
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Manufacturer	ABB / Kent-Taylor
Literature	440R Series ModelCinstructions 01A400 (442R proportional plus reset)

Notes
From ABB/Kent-Taylor 440R Series ModelCinstructions, 442R proportional-plus-reset section. Measuring-element span and deadband are element-specific and are not invented here.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.